STATUS OF THE CLAIMS

Claims 1-5 are pending in the application.

Claims 1-5 were rejected under 35 USC§102(b) as being anticipated by Rabenau '101.

Claims 1-5 were rejected under 35 USC§102(e) as being anticipated by Reschnar et al. '824.

Claims 1-3 are currently amended by this Amendment.

Claims 1-3 (currently amended), and original Claims 4 and 5 are pending in the application following entry of this Amendment.

REMARKS

SUMMARY OF THE INVENTION

Laminates consisting of a high-damping core material sandwiched between two stiff, weldable skins. The laminates are comprised of 100% metal constituents, and do not rely on epoxy or low-melting point solders. To make the laminate structures, a first alloyable metal is deposited on the surface of a dissimilar metal. The coated surface is then placed in contact with a second alloyable metal and allowed to interdiffuse at an elevated temperature that is less than the melting point of the base metal(s). The metals are chosen such that diffusion creates an alloy with a melting point lower than either of the constituents. The processing temperature is set so that the alloy melts but leaves the base metals in solid form, causing a thin layer of liquid to form and wet both sides of the interface. External pressure is applied to the opposing base metals in such a way as to